INSTALL GUIDE

AKX-IDS(RS)-BZ1B-[ADS-BZ1]-EN

DOCUMENT NUMBER
14281

REVISION DATE
20140314

FIRMWARE
AKX-IDS(RS)-BZ1B-[ADS-BZ1]

HARDWARE
ADS-BZ1

ACCESSORIES
ADS-USB (REQUIRED)
COMPATIBLE RF-KIT (OPTIONAL)
DIRECTED SMARTSTART & ADS-HRN(RS)-SM01 (OPTIONAL)
ADS-TOOLS-MB01 (OPTIONAL)

NOTICE The manufacturer will accept no responsability for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. Please review the Installation Guide carefully before beginning any work.

BEFORE INSTALLATION
1- Connect module to computer
2- Login to Weblink account
3- Flash firmware to module (module is not preloaded with firmware)
4- Use accessories accordingly (accessories are sold separately)

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NOTES

I This firmware covers Automatic Transmission (AT) vehicles only.

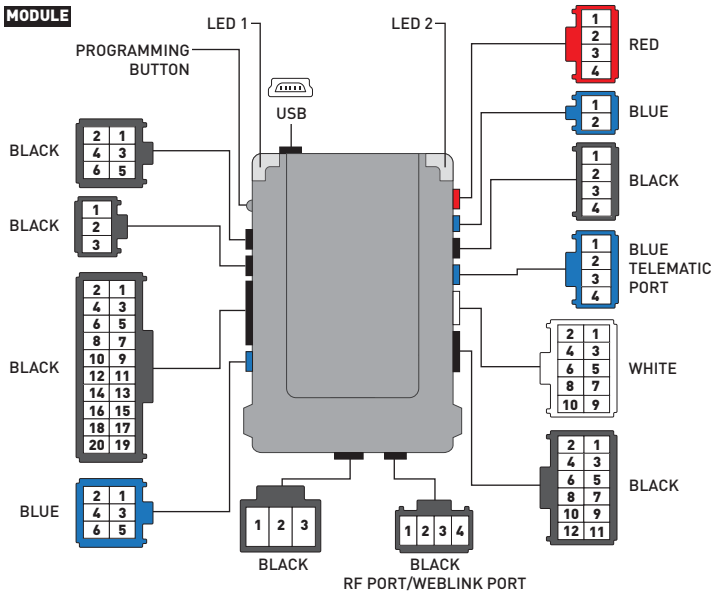
II All the covered Push To Start (PTS) vehicles are equipped with a keyless authorization system called "Keyless Go".

MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES																				
				REMOTE START FROM OEM REMOTES	SECURE TAKEOVER	DATA IMMOBILIZER BYPASS	ARM OEM ALARM	DISARM OEM ALARM	DOOR LOCK	DOOR UNLOCK	PRIORITY UNLOCK	TRUNK/HATCH RELEASE	PARKING LIGHT CTRL	HEATED SEATS CTRL	VENTILATED SEATS CTRL	RAP SHUTDOWN CTRL	TACHOMETER STATUS MONITORING	BRAKE PEDAL STATUS MONITORING	VSS STATUS MONITORING	GLOW PLUG STATUS MONITORING	DOOR STATUS MONITORING	TRUNK STATUS MONITORING	HOOD STATUS MONITORING*
MERCEDES-BENZ	CL Class PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	CL Class STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	S Class PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	S Class STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•
	S Class Diesel PTS AT	07-13	2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	S Class Diesel STD key AT	07-13	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

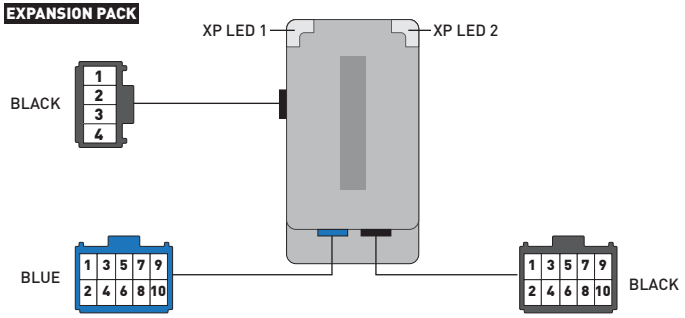
* If equipped with a factory hood switch.

BOX CONTENTS

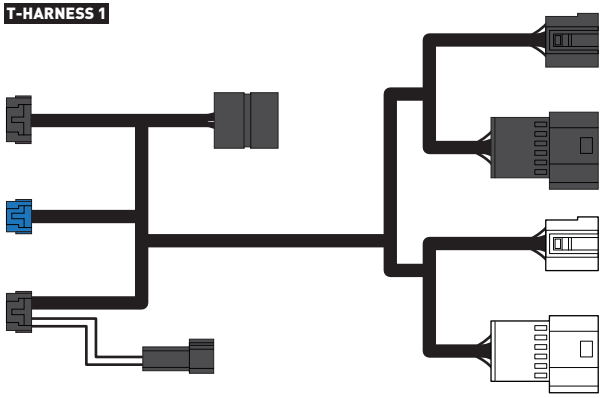
MODULE



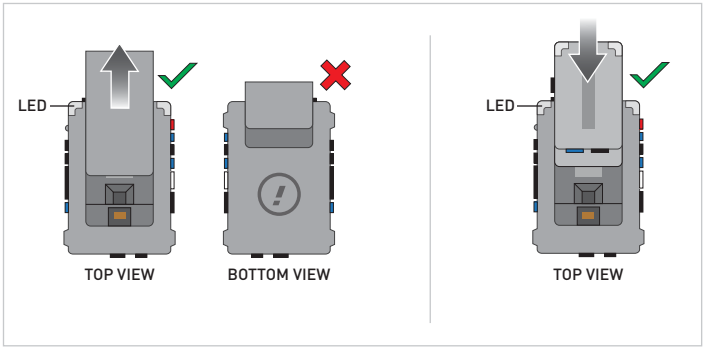
EXPANSION PACK



T-HARNESS 1



EXPANSION PACK ASSEMBLY



10 PIN WHITE CONNECTOR

12 PIN BLACK CONNECTOR

AFTERMARKET HOOD SWITCH AND CABLE

2 PIN BLACK CONNECTOR

EXTRA CONNECTOR HOUSING

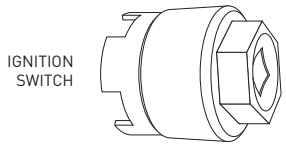
STICKER 1

STICKER 2

THIS VEHICLE IS EQUIPPED WITH A REMOTE STARTER
TECHNICAL INFORMATION
XXX.XXX.XXXX
RENSEIGNEMENTS TECHNIQUES
CE VÉHICULE EST ÉQUIPÉ D'UN DÉMARREUR À DISTANCE

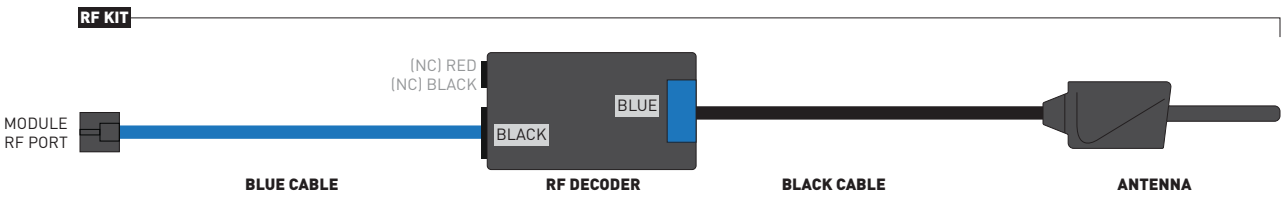
WEBLINK CABLE (required accessory sold separately)

ELECTRONIC IGNITION SWITCH REMOVAL TOOL (accessory sold separately)



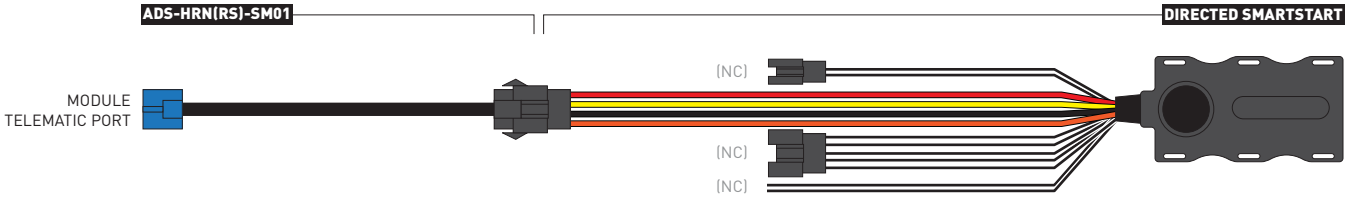
ADS-TOOLS-MB01 OR
MERCEDEZ BENZ P/N 639 589 01 07 00

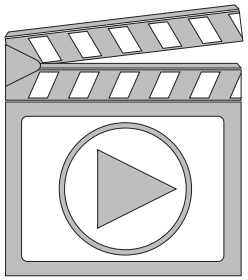
RF KIT (Visit our website to see if this accessory is included with your product)



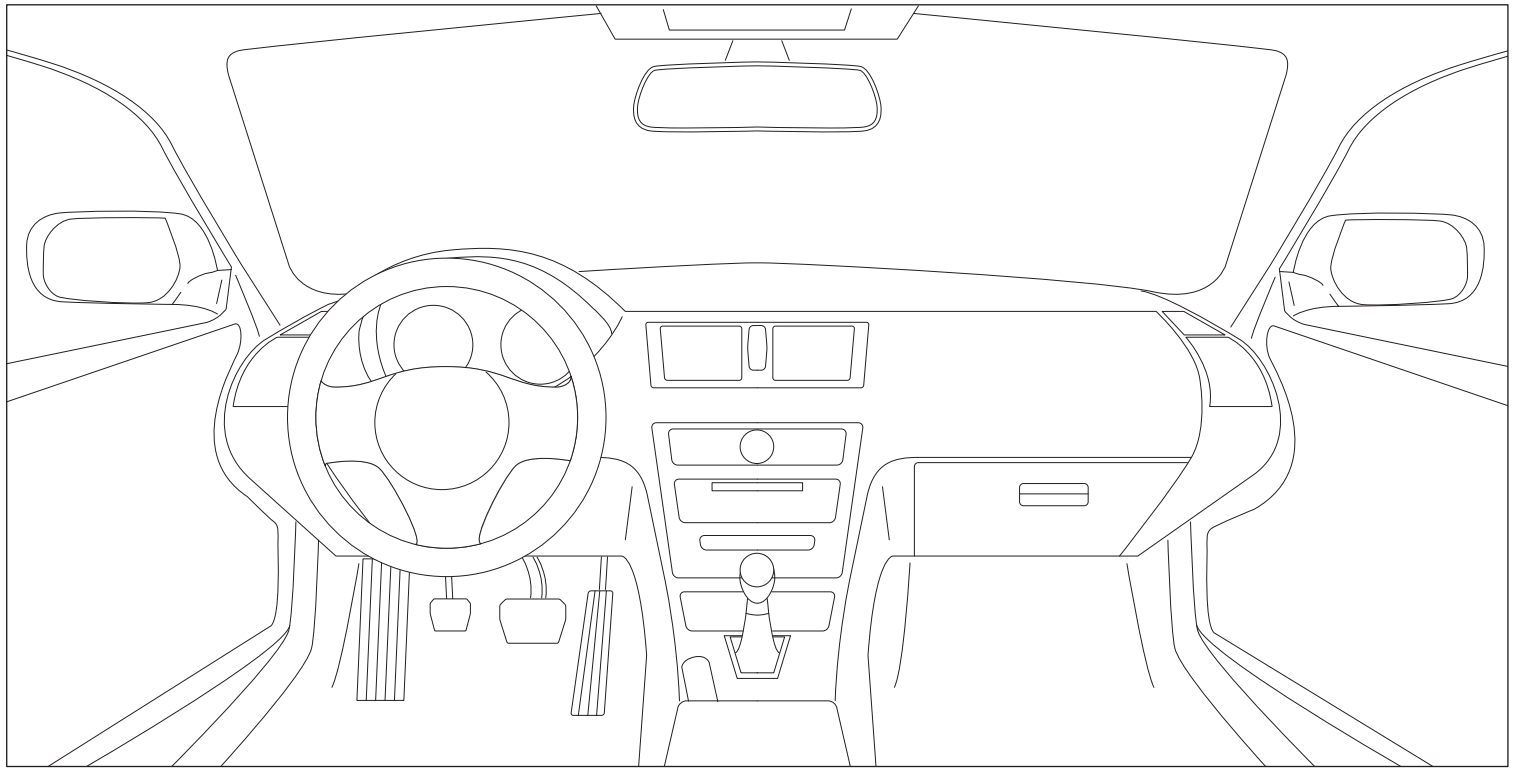
FLASH RF DECODER
BEFORE INSTALLATION

TELEMATIC KIT (accessories sold separately)

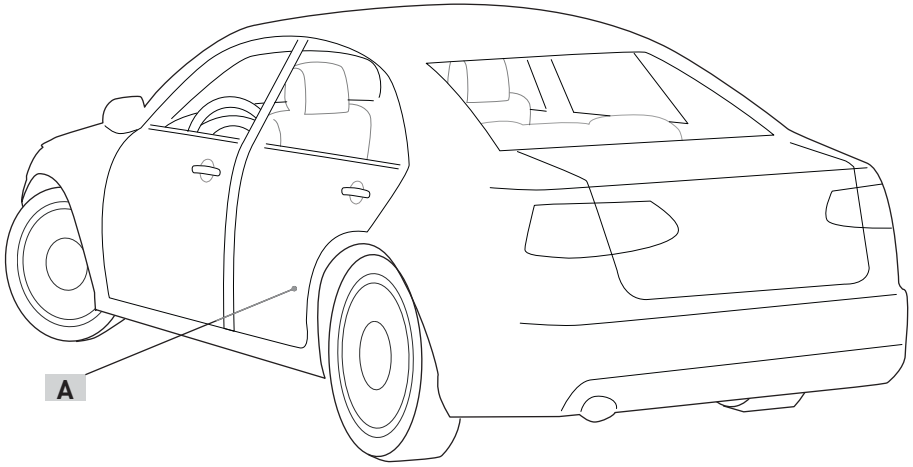


IMPORTANT	INSTALL VIDEO GALLERY AVAILABLE ONLINE
	Before installing this product, consult our Install Video Gallery and watch: • Vehicle Disassembly Procedure videos • Module Connection Procedures videos • Module Programming Procedures videos Simply visit our forum and register at http://www.12voltdata.com/forum/viewtopic.php?f=340&t=9683&sid=a61772b486e4584ad6f058b171ffa425

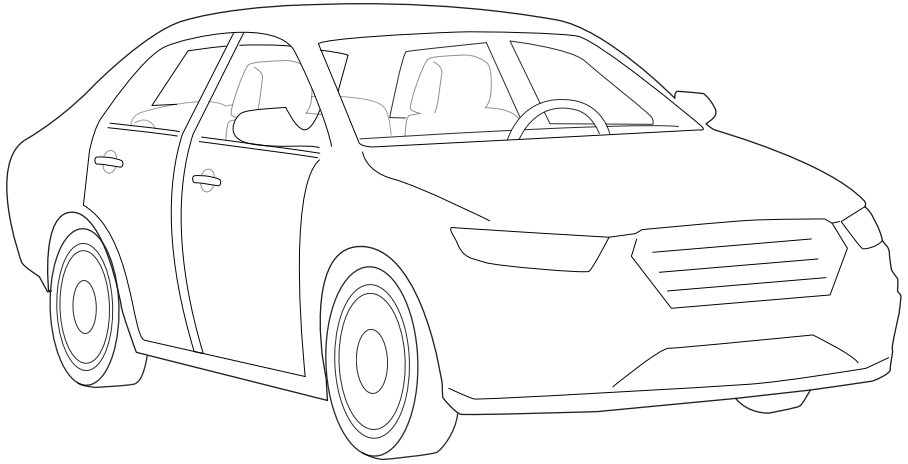
INTERIOR VIEW



DRIVER SIDE VIEW



PASSENGER SIDE VIEW



01

START the vehicle. Verify all vehicle functionalities. If the vehicle displays error messages or any malfunction: stop the installation and service the vehicle.

02

Turn OFF the vehicle.

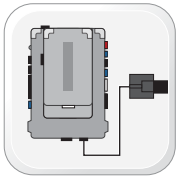
03

Verify all keyfob functionalities (Door Lock, Door Unlock, Trunk Release and RFID access if equipped).

04

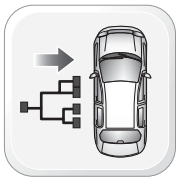
Insert the expansion pack in the module.

05



Connect the module to the computer with the programming cable (WEBLINK port). Flash the module with the latest firmware then flash the expansion pack.

06



Connect and secure every connector to the vehicle, as shown in STEP 1 of the WIRING DIAGRAM.

07

WARNING: Any vehicle harness that is disconnected during installation, must be re-connected before performing any system tests. Failure to comply will result in vehicle displaying error messages. An OEM scantool will be required to clear the error messages.

08

START the vehicle. Verify all vehicle functionalities.

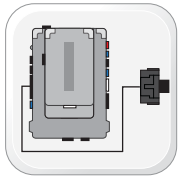
09

WARNING: If the vehicle displays error messages or any malfunction, stop the installation, verify every connection and if the problem persists, call technical support.

10

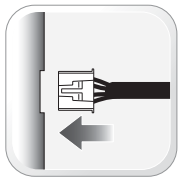
Turn OFF the vehicle.

11



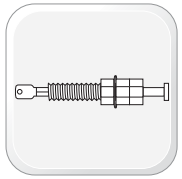
Connect every connector to the module, as shown in STEP 2 of the WIRING DIAGRAM.

12



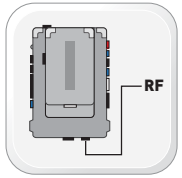
Connect every other connector to the module, as shown in STEP 3 of the WIRING DIAGRAM.

13



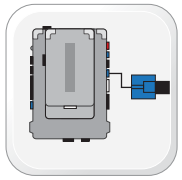
If the vehicle is not equipped with a factory hood switch, install an aftermarket hood switch as shown in STEP 4 of the WIRING DIAGRAM.

14



If required, connect a compatible RF Kit to the RF port of the module.

15



If required, connect a compatible Telematics Device to the TELEMATIC port of the module.

16

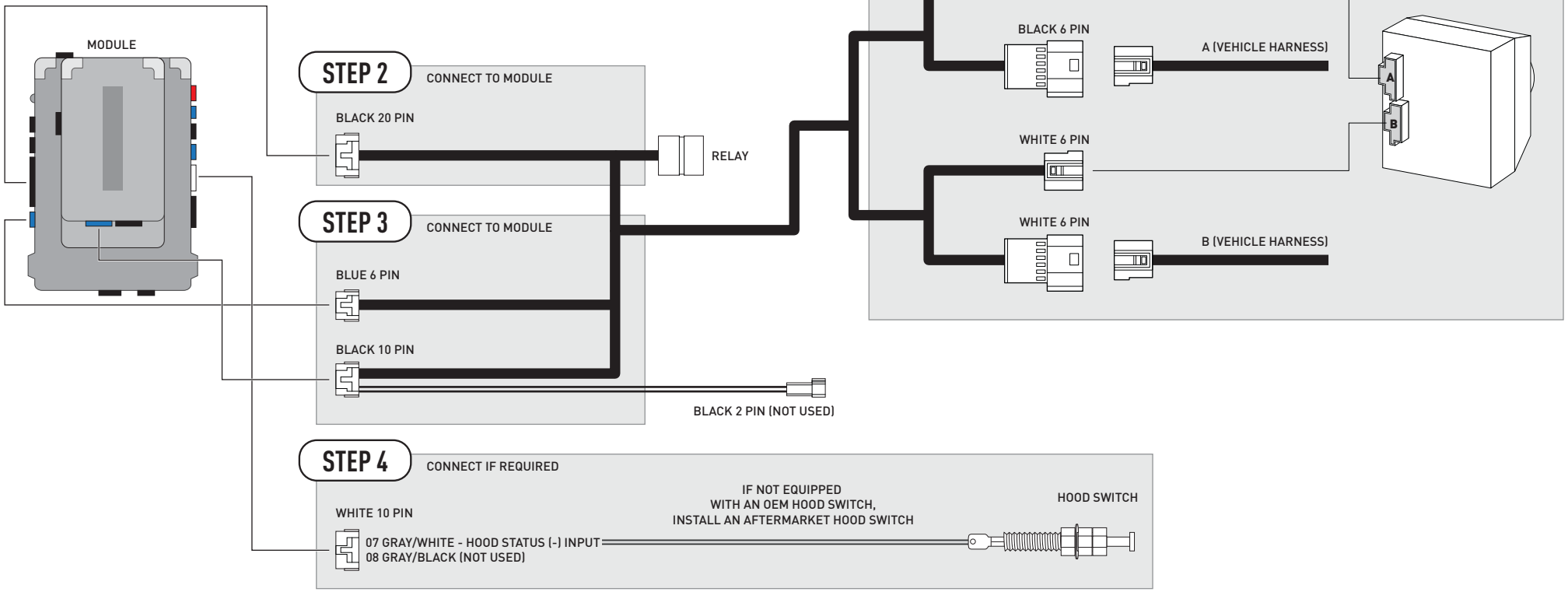
Put sticker 1 on a clean and visible surface in the engine bay and put sticker 2 under the dashboard near the OBDII connector.

17

Module installation procedure completed.

WARNING

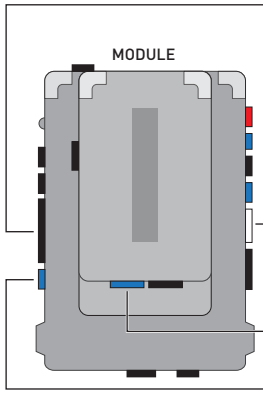
1-TO CONNECT THE MODULE: FOLLOW STEPS 1 TO 4
2-TO DISCONNECT THE MODULE: FOLLOW STEPS 4 TO 1



MAKE	MODEL	YEAR	WIRE DESCRIPTION	CONNECTOR NAME	CONNECTOR COLOR	CONNECTOR TYPE	POSITION	WIRE COLOR	POLARITY	MODULE LOCATION	COMPONENT LOCATOR
MERCEDES-BENZ	CL Class PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A
	S Class PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A
	S Class Diesel PTS AT	07-13	CanH	~	Black	02 pin	01	Brown/Red	(DATA)	Behind carpet, under driver seat	A
			CanL	~	Black	02 pin	02	Brown	(DATA)	Behind carpet, under driver seat	A

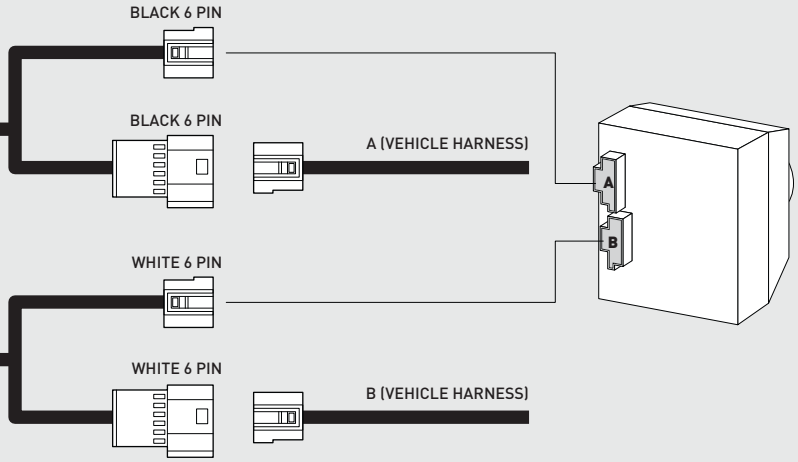
WARNING

1-TO CONNECT THE MODULE: FOLLOW STEPS 1 TO 4
2-TO DISCONNECT THE MODULE: FOLLOW STEPS 4 TO 1



STEP 1

CONNECT TO VEHICLE
START VEHICLE WITH OEM KEYFOB TO TEST CONNECTIONS



STEP 2

CONNECT TO MODULE

BLACK 20 PIN

RELAY

STEP 3

CONNECT TO MODULE

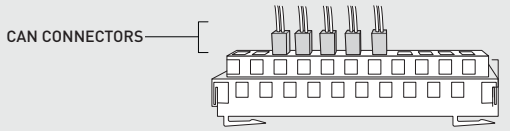
BLUE 6 PIN

BLACK 10 PIN

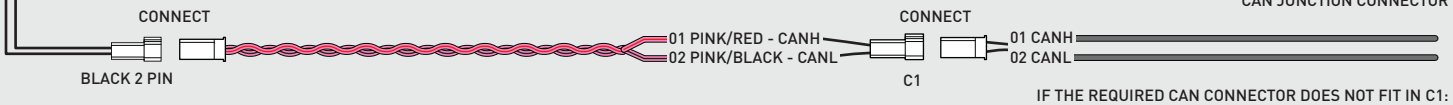
REFER TO WIRE CHART

REFER TO COMPONENT LOCATOR

SEE MODULE PROGRAMMING PROCEDURE - PTS TO IDENTIFY THE REQUIRED CAN CONNECTOR. ONCE IDENTIFIED, DISCONNECT IT FROM THE CAN JUNCTION CONNECTOR AND CONNECT IT TO C1.



CAN JUNCTION CONNECTOR



IF THE REQUIRED CAN CONNECTOR DOES NOT FIT IN C1:
SEE NEXT PAGE FOR INSTRUCTIONS

STEP 4

CONNECT IF REQUIRED

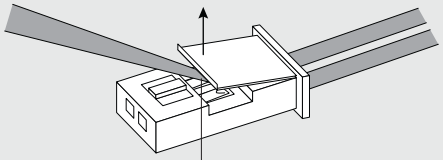
IF NOT EQUIPPED
WITH AN OEM HOOD SWITCH,
INSTALL AN AFTERMARKET HOOD SWITCH

HOOD SWITCH

WHITE 10 PIN

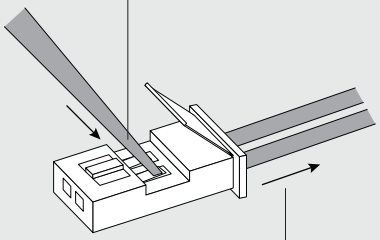
07 GRAY/WHITE - HOOD STATUS (-) INPUT
08 GRAY/BLACK (NOT USED)

INSTRUCTIONS TO CHANGE THE HOUSING OF CAN WIRES
(ONLY IF THE CAN CONNECTOR DOES NOT FIT IN C1)

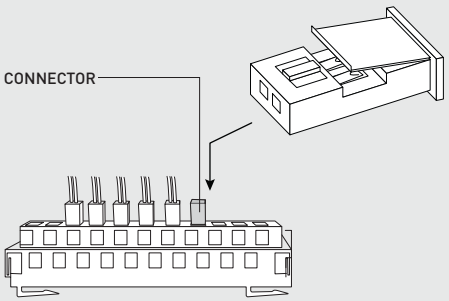


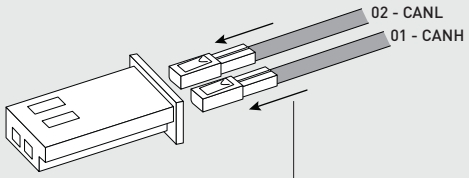
1- RELEASE RETAINING CLIP OF CAN CONNECTOR.

2- RELEASE LOCKING MECHANISM.
REMOVE CAN WIRES FROM HOUSING.



3- INSERT EMPTY HOUSING IN CAN JUNCTION CONNECTOR
(TO AVOID LOSING IT).





4- INSERT CAN WIRES IN PROVIDED HOUSING.
CONNECT IT WITH C1 HARNESS,
AS SHOWN IN WIRING DIAGRAM.

01

LED 1 is solid RED. Insert key into ignition.

02

Turn key to ON position.

03

Wait, LED 1 will turn solid GREEN then will turn OFF.

>>

WARNING: If LED 1 flashes RED/GREEN, turn ignition to OFF position. The vehicle is PTS. Follow appropriate PTS sections.

04

START vehicle for 15 seconds. LED 1 will turn solid RED.

05

Wait, LED 1 will turn solid GREEN then will turn OFF.

06

Turn key to OFF position. Remove key from ignition.

07

Module Programming Procedure completed.

>>

One of the connectors of the CAN junction connector controls the keyless authorization system (Keyless Go). The following procedure will allow the module to identify the required CAN connector.

>>

Have the CAN junction connector accessible. Identify every CAN connector whose CanH and CanL wires match the colors listed in the WIRE CHART.

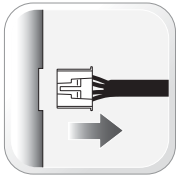
01

LED 1 is solid RED. Push start button to ON position.

02

Wait, LED 1 will flash RED/GREEN.

03



Disconnect the first connector of the CAN junction connector whose CanH and CanL wires match the colors listed in the WIRE CHART. Wait 5 seconds.

>>

If the parking lights flash, the required connector is found. Connect it to the C1 connector as shown in the WIRING DIAGRAM and go to step 5.

>>

If the parking lights do NOT flash, the required connector is NOT found. Reconnect it to the CAN junction connector and repeat step 4 with another connector.

04

Wait, LED 1 will turn solid GREEN then will turn OFF.

05

START vehicle for 15 seconds. LED 1 will turn solid RED.

06

Wait, LED 1 will turn solid GREEN then will turn OFF.

07

Push start button to OFF position.

08

Module Programming Procedure completed.

	CHECKLIST
01	WARNING: Vehicle engine will start many times. Test in a well ventillated area.
02	Open driver door window for easy vehicle access.
03	Enter vehicle. Start the vehicle and let it run for 15 seconds.
04	Stop the vehicle and exit vehicle.
05	Close all vehicle doors, hood and trunk.
06	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 1: Does the vehicle remote start?
☐	YES: Go to step 7.
☐	NO: The module doesn't detect OEM remote lock button from the vehicle communication network. Check all connections, repeat step 6 and call technical support if the problem persists.
07	Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle.
	QUESTION 2: Does the vehicle shut down?
☐	YES: Go to step 8.
☐	NO: Repeat step 7. If the problem persists, unlock the door using the OEM keyfob, enter vehicle and press brake pedal to shut down the vehicle and call technical support.
08	Open hood.
	QUESTION 3: Is the orange warning sticker "Sticker 1" placed under the hood?
☐	YES: Leave hood open and go to step 9.
☐	NO: Put the mandatory orange warning sticker "Sticker 1", leave hood open and go to step 9.
09	Close all doors.
10	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
	QUESTION 4: Does the vehicle remote start?
☐	YES: Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle. Go to question 5.
☐	NO: Go to step 11.
	QUESTION 5: Is the vehicle equipped with a factory hood switch? (Inside hood latch)
☐	YES: The module does NOT detect the hood signal from the vehicle communication network. Call technical support.
☐	NO: Install the mandatory hood switch included in the kit. Repeat installation checklist.
11	Close hood.
12	Enter vehicle. Do NOT press brake pedal.
13	Close all doors.
14	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
15	Wait for the vehicle to start.
16	Press brake pedal.
	QUESTION 6: Does the vehicle shut down?
☐	YES: Go to step 17.
☐	NO: The module does NOT detect the brake pedal signal from the vehicle communication network. Press LOCK button three times [3x] rapidly on the OEM keyfob to shut down vehicle and call technical support.

	CHECKLIST
17	Exit vehicle.
18	Close all doors.
19	Press LOCK button three times [3x] rapidly on the OEM keyfob to remote start vehicle.
20	Wait for the vehicle to start.
	QUESTION 7: Is the vehicle equipped with a keyless authorization system (Keyless Go) ?
☐	YES: Touch the exterior driver door handle to unlock door using the keyless authorization system (Keyless Go). Within 45 seconds, go to step 21.
☐	NO: Press UNLOCK button once [1x] on the OEM keyfob. Within 45 seconds, go to step 21.
21	Open driver door.
	QUESTION 8: Does the vehicle shut down?
☐	YES: The module does NOT detect the unlock signal from the vehicle communication network. Call technical support.
☐	NO: Go to step 22.
22	Enter vehicle.
	QUESTION 9: Is the vehicle equipped with a keyless authorization system (Keyless Go) ?
☐	YES: Push vehicle start button once [1x]. Go to step 23.
☐	NO: Insert key into ignition and turn key to ON position. Go to step 23.
23	Press and release brake pedal.
	QUESTION 10: Does the vehicle shut down?
☐	YES: Repeat this procedure from step 3. If the problem persists, call technical support.
☐	NO: Go to step 24.
24	Shut down the vehicle.
25	Installation checklist completed.

>>

NOTE: In Valet Mode, the Remote starter is not functional. Keyless entry, Lock and Unlock will remain functional. See RF kit user manual for alternate valet mode programming.

01

Time restriction. Complete next step within 7 seconds.

02

Cycle ignition ON five times [5x OFF/ON] rapidly. Parking Light will flash once [1x].

03

Wait, Parking Light will flash once [1x] to indicate that the valet mode is ON or twice [2x] to indicate that the valet mode is OFF.

04

Turn ignition to OFF position.

05

Valet Mode Programming Procedure completed.

>>

To exit valet mode: repeat steps 1 to 4 then START vehicle for 15 seconds.

>>

WARNING: Program aftermarket remotes before usage. A maximum of four [4x] aftermarket remotes per system.

01

Time restriction. Complete next step within 7 seconds.

02

Cycle ignition ON five times [5x OFF/ON] rapidly.

03

Parking Light will flash once [1x].

04

Time restriction. Complete next step within 5 seconds from previous step.

05

Press once [1x] on LOCK button of aftermarket remote.

06

Parking Light will flash once [1x].

>>

To program additional remotes: repeat steps 4 to 6 using each additional remote.

07

Wait, Parking Light will flash twice [2x].

08

Turn ignition to OFF position.

09

START vehicle for 15 seconds.

10

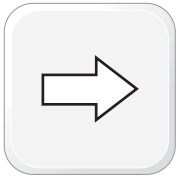
Aftermarket Remote Programming Procedure completed.

>>

It is mandatory to exit the Module Navigation at the end of this procedure. Failure to exit the Module Navigation will drain vehicle battery. To exit the Module Navigation at any time: Follow STEP 13.

>>

Module must be programmed to the vehicle.

>> 

Use the Module Navigation Chart on the next page.

01

Set ignition to OFF position.

02

TO ACCESS THE MENUS: Press and hold programming button until LED 1 turns solid GREEN.

03

IN THE MENUS: Press the programming button as many times as the menu number indicates. LED 1 will flash GREEN an equal amount of times continuously.

04

TO ACCESS THE OPTIONS: Press and hold programming button until LED 1 turns solid RED.

05

IN THE OPTIONS: Press the programming button as many times as the option number indicates. LED 1 will flash RED an equal amount of times continuously.

06

TO ACCESS THE SETTINGS: Press and hold programming button until LED 1 turns solid GREEN.

07

LED 1 will flash GREEN as many times as the current (or default) setting number, continuously.

08

IN THE SETTINGS: Press the programming button as many times as necessary to access your setting. LED 1 will flash GREEN an equal amount of times continuously.

09

To return to the MENUS: exit the Module Navigation and redo the Module Navigation Procedure.

10

To save and return to the OPTIONS: Press and hold programming button until LED 1 turns solid RED.

11

LED 1 will flash RED as many times as the current option number continuously.

12

Configure every other setting and proceed to step 13.

13

MANDATORY: EXIT MODULE NAVIGATION. Press and hold programming button for 7 seconds. LED 1 will flash RED rapidly. Release programming button. LED 1 will turn OFF.

14

Module navigation completed.

>>

Failure to exit the Module Navigation will drain vehicle battery.

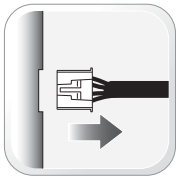
MODULE NAVIGATION CHART: NOTES	[X] MENUS		[Y] OPTIONS		[Z] SETTINGS	
I Default settings are listed in bold. II Make sure the option is covered on the vehicle before attempting to change the setting.	01	CONFIGURATION	01	DISARM/UNLOCK BEFORE START	**01**	**OFF**
					02	ON
			02	RELOCK AFTER START	**01**	**OFF**
					02	ON
			03	RELOCK AFTER SHUTDOWN	**01**	**OFF**
					02	ON
			04	FORCE UNLOCK ALL ON FIRST PRESS	**01**	**OFF**
					02	ON
			05	TAKEOVER	**01**	**ENABLE**
					02	DISABLE*
			06	SECURE TAKEOVER DELAY	**01**	**45 SEC**
					02	90 SEC
					03	03 MIN
					04	04 MIN
			07	FACTORY KEYLESS RS SEQUENCE	01	DISABLE
					02	N/A
					03	LOCK + UNLOCK + LOCK
					04	**LOCK + LOCK + LOCK**
			08	MODULE RUN TIME	01	03 MIN
					02	05 MIN
					03	10 MIN
					04	15 MIN
					05	25 MIN
					06	30 MIN
					07	35 MIN
					08	**15 MIN**
			09	WAIT TO START DELAY	**01**	**02 SEC**
					02	05 SEC
					03	08 SEC
					04	10 SEC
					05	15 SEC
					06	20 SEC
					07	25 SEC
					08	30 SEC
			10-15	N/A	01	N/A
	02-07	Technical Support only	01	N/A	01	N/A

*Vehicle will shutdown when a door is opened.

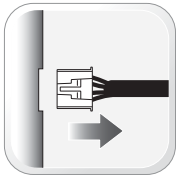
REMOTE STARTER ERROR CODES: NOTES	[X] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system. II After a remote starter failure, the parking lights will flash three [3x] times, then will flash [X] number times to indicate an error code. See table.	01	Engine running.
	02	Key in ignition at ON position.
	03	N/A
	04	Trunk is open.
	05	Foot brake is ON.
	06	Hood is open.
	07	N/A
	08	Tach failure.
	09	N/A
	10	System is in Valet Mode.
	11	CAN communication failure
	12	RS not synchronized. Start vehicle with OEM key for 15 sec before trying a new RS sequence.

REMOTE STARTER SHUTDOWN ERROR CODES: NOTES	[Y] NUMBER OF PARKING LIGHT FLASHES	DIAGNOSTIC
I WARNING: The following applies only when the parking lights are connected and supported by the system. II If the engine shuts down after a remote starter sequence: Press and hold the Trunk button and the Start button at the same time for 2.5 seconds when using a 1-WAY remote. OR Press once [1x] on button "4" when using a 2-WAY remote. The parking lights will flash four [4x] times, then will flash [Y] number times to indicate an error code. See table.	01	Engine tach signal is lost.
	02	N/A
	03	Foot brake is ON.
	04	Hood is open.
	05	Engine RPM limiter is ON.
	06	Glow plug timeout error.
	07	Vehicle is moving (VSS).
	08	Check engine warning light is ON.
	09	Low fuel warning light is ON.
	10	N/A
	11	CAN communication failure during RS sequence.

TEST MODULE		LED 1 STATUS	DIAGNOSTIC
I	DURING PROGRAMMING	Flashing RED	Missing/wrong information from firmware or vehicle.
		Solid RED	Module waiting for more vehicle information.
		Flashing GREEN	Additional steps required to complete module programming.
		Solid GREEN then OFF	Module correctly programmed.
		OFF	No activity or module already programmed.
II	DURING REMOTE START	Flashing RED	Module incorrectly programmed.
		Solid RED	Module incorrectly programmed.
		Flashing GREEN	Module correctly programmed and operational.
		Solid GREEN then OFF	Reset in progress.
		OFF	Invalid ground when running status from remote starter.
III	WITH IGNITION OFF	Flashing RED	Module incorrectly programmed or connected.
		Solid RED	Module not programmed. Waiting for more vehicle information.
		Flashing GREEN	False ground when running status from remote starter.
		Solid GREEN then OFF	Reset in progress.
		OFF	Module at rest and ready for a remote start sequence.

01 

Disconnect all connectors from module except the BLACK 20-PIN connector.

02 

Disconnect the BLACK 20-PIN connector.

03

PRESS AND HOLD programming button while connecting the BLACK 20-PIN connector.

04

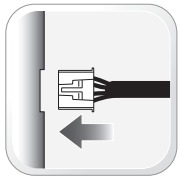
Wait, LED 1 will flash RED. RELEASE programming button.

05

LED 1 will turn RED for 2 seconds.

06

Module RESET completed.

07 

Reconnect all connectors.

08

Repeat programming procedure.

>>

Failure to follow procedure may result with a DTC or a CHECK ENGINE error message.

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